Major Mines of Nevada 2018

Mineral Industries in Nevada’s Economy

University of Nevada, Reno
The seven-member Commission on Mineral Resources is a public body appointed by the Governor that provides advice and recommendations to the Governor and Legislature on matters relating to mineral resources. The Division’s mission is to encourage and assist in the responsible exploration for, and the production of, minerals, oil, gas, and geothermal energy which are economically beneficial to the State.

The Division is involved in activities relating to mineral, oil, gas, and geothermal development. Staff compiles annual data on all active mines in Nevada and maintains the State’s mine registry. Information concerning mining operations and production is made available to the public through this yearly publication. Educational documents and materials concerning the minerals industry are also produced. The Division often acts as a cooperating agency in federal land use actions at the request of the Governor’s office.

The Division is the fluid minerals permitting agency for drilling activities on both public and private lands in Nevada. Staff also monitors production of oil, gas, and geothermal resources to ensure proper management and conservation. Nevada is a member of the Interstate Oil and Gas Compact Commission.

The Division’s abandoned mine lands program provides for public safety by identifying and ranking dangerous conditions at mines that are no longer operating, and by securing dangerous orphaned mine openings. The program continually urges the public to recognize and avoid hazardous abandoned mines.

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Garrett Wake - Chief, Southern Nevada Operations

Cover photo: Metaquartzite architectural and decorative stone products from Las Vegas Rock quarries (Mount Potosi and Goodsprings, NV) and processing facility (Jean, NV), Clark County (Courtney Brailo photos).
This is the thirtieth of an annual series of summary reports on major mines of Nevada. Sand and gravel operations are not included. Information on employment and production for the calendar year 2018 was provided by the individual mine operators. The Nevada Division of Minerals maintains a complete register of Nevada mines. For further information, contact them at 400 W. King, Suite 106, Carson City, Nevada 89703 or call (775) 684-7040, fax (775) 684-7052, or visit their Web site at http://minerals.nv.gov.

College of Science
Mackay School of Earth Sciences and Engineering

University of Nevada, Reno

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Major mines

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Section I

Lyon County

Adams Claim Gypsum Mine (1)
Operator:
ACG Materials, dba Art Wilson Co.
P.O. Box 20160
Carson City, NV 89721
775-882-0700 Fax: 882-0790
Company employees: 43
Production:
Gypsum - 359,556 tons
Limestone - 1,456 tons

Ludwig Mine (2)
Operator:
ACG Materials, dba Art Wilson Co.
P.O. Box 20160
Carson City, NV 89721
775-882-0700 Fax: 882-0790
Company employees: 3
Production:
Gypsum - 39,803 tons
Limestone - 1,350 tons

NCC Fernley Operations (3)
Operator:
Nevada Cement Co.
P.O. Box 840
Fernley, NV 89408
775-575-2281 Fax: 575-4387
Company employees: 117
Production:
Limestone - 113,811 tons

Storey County

Clark Mine (4)
Operator:
EP Minerals, LLC
640 Clark Station Rd.
Sparks, NV 89434
775-824-7700 Fax: 824-7715
Company employees: 4
Production:
Diatomite - 102,358 tons

Washoe County

NCC Flanigan Mine (5)
Operator:
Nevada Cement Co.
P.O. Box 840
Fernley, NV 89408
775-575-2281 Fax: 575-4387
Production:
Specialty clays - 510 tons
Section II

Humboldt County

Hycroft Mine (1)
Operator:
Hycroft Mining Company
P.O. Box 3030
Winnemucca, NV 89446
775-623-5260 Fax: 201-1045
Company employees: 86
Contract employees: 75
Production:
No mine production in 2018

Lone Tree Complex (2)
Operator:
Newmont Mining Corp.
1655 Mountain City Highway
Elko, NV 89801
775-778-4000 Fax: 778-4360
Company employees: 39
Contract employees: 33
Production:
Gold - 24,253 oz
Marigold Mine (3)
Operator:
    SSR Mining
    P.O. Box 160
    Valmy, NV 89438
    775-502-4800
    Company employees: 400
    Contract employees: 18
Production:
    Gold - 205,161 oz
    Silver - 4,315 oz

MIN-AD Mine (4)
Operator:
    MIN-AD, Inc.
    P.O. Box 39
    Winnemucca, NV 89446
    775-623-5944 Fax: 623-9028
    Company employees: 15
Production:
    Dolomite - 42,832 tons

Turquoise Ridge Joint Venture (5)
Operator:
    Barrick Gold Corporation
    2055 Getchell Mine Road
    Golconda, NV 89414
    775-529-5001 Fax: 748-3125
    Company employees: 480
    Contract employees: 160
Production:
    Gold - 444,720 oz

Twin Creeks Mine (6)
Operator:
    Newmont Mining Corp.
    1655 Mountain City Highway
    Elko, NV 89801
    775-778-4000 Fax: 778-4360
    Company employees: 470
    Contract employees: 227
Production:
    Gold - 359,042 oz
    Silver - 206,161 oz
## Pershing County

### Buff/Satin Mine (7)
**Operator:**
Vanderbilt Minerals, LLC  
P.O. Box 6660  
Pahrump, NV 89041  
775-537-6976 Fax: 537-6879  
Company employees: 4
**Production:**  
Specialty Clay - 3,616 tons

### Coeur Rochester Mine (8)
**Operator:**
Coeur Rochester, Inc.  
P.O. Box 1057  
Lovelock, NV 89419  
775-273-7995  
Company employees: 289  
Contract employees: 28
**Production:**  
Gold - 54,388 oz  
Silver - 5,037,983 oz

### Colado Mine (9)
**Operator:**
EP Minerals, LLC  
P.O. Box 959  
Lovelock, NV 89419  
775-824-7591 Fax: 824-7595  
Company employees: 35
**Production:**  
Diatomite - 208,156 tons

### Empire Gypsum Mine (10)
**Operator:**
Empire Mining Co., LLC  
P.O. Box 157  
Gerlach, NV 89412  
775-800-4569 Fax: 702-921-9552  
Company employees: 40  
Contract employees: 1
**Production:**  
Gypsum - 438,167 tons

## Florida Canyon Mine (11)
**Operator:**
Rye Patch Mining U.S.  
P.O. Box 330  
Imlay, NV 89418  
775-538-7300 Fax: 538-7324  
Company employees: 187  
Contract employees: 11
**Production:**  
Gold - 46,878 oz  
Silver - 31,775 oz

### Relief Canyon Limestone Quarry (12)
**Operator:**
Nevada Cement Company  
P.O. Box 840  
Fernley, NV 89408  
775-575-2281 Fax: 575-4387  
Company employees: 6
**Production:**  
Limestone - 62,335 tons

### Sunrise Placer Mine (13)
**Operator:**
Sunrise Minerals, LLC  
9405 Betty Ln.  
Winnemucca, NV 89445  
775-848-2580  
Company employees: 8
**Production:**  
Gold - 268 oz  
Silver - 150 oz
Coeur Rochester Mine, Pershing County
(Garrett Wake photo).
Section III

Eureka County

Betze-Post Mine (1)
Operator: Barrick Goldstrike Mines, Inc.
P.O. Box 29
Elko, NV 89803
775-748-1001
Company employees: 1,217
Production:
Gold - 458,287 oz
Silver - 70,621 oz

Eastern Nevada Operations
(Carlin Operations) (2)
Operator: Newmont Mining Corp.
1655 Mountain City Highway
Elko, NV 89801
775-778-4000 Fax: 778-4360
Company employees: 2,147
Contract employees: 435
Production:
Gold - 926,789 oz
Silver - 74,494 oz

Maggie Creek Plant (3)
Operator: Progressive Contracting, Inc.
P.O. Box 1930
St. George, UT 84771
435-628-6662 Fax: 628-7314
Company employees: 7
Contract employees: 5
Shipped:
Barite - 58,834 tons

Ruby Hill Mine (4)
Operator: Ruby Hill Mining Co.
P.O. Box 676
Eureka, NV 89316
775-401-6435
Company employees: 16
Production:
Gold - 4,648 oz
Silver - 3,584 oz
Lander County

Argenta Mine (5)
Operator:
Baker Hughes Oilfield Operations, LLC
P.O. Box 277
Battle Mountain, NV 89820
775-625-8700 Fax: 635-5455
Company employees: 18
Mined:
Barite - 105,000 tons

Cortez Hills Mine (6)
Operator:
Barrick Cortez, Inc.
HC66 Box 1250
Crescent Valley, NV 89821
775-468-4400 Fax: 468-4496
Company employees: 322
Contract employees: 130
Production:
(underground only, excluding the open-pit)
Gold - 290,457 oz
Silver - 9,772 oz

Fire Creek Mine (7)
Operator:
Klondex Gold and Silver Mining Co.
(Acquired by Hecla Mining Co., July 2018)
4000 W. Winnemucca Blvd.
Winnemucca, NV 89445
775-621-5535 Fax: 328-7176
Company employees: 91
Contract employees: 39
Production:
Gold - 65,450 oz
Silver - 69,004 oz

Greystone Mine (8)
Operator:
M-I Swaco
P.O. Box 370
Battle Mountain, NV 89820
775-635-5135
Company employees: 48
Shipped:
Barite - 233,895 tons

Mountain Spring Mine (9)
Operator:
M-I Swaco
P.O. Box 370
Battle Mountain, NV 89820
775-635-5135
Company employees: 4
Shipped:
Barite - 48,452 tons

Pipeline Mine (10)
Operator:
Barrick Cortez, Inc.
HC66 Box 1250
Crescent Valley, NV 89821
775-468-4400 Fax: 468-4496
Company employees: 932
Contract employees: 425
Production:
(includes the Cortez Hills open-pit)
Gold - 974,381 oz
Silver - 9,049 oz

Phoenix Mine (11)
Operator:
Newmont Mining Corp.
P.O. Box 1657
Battle Mountain, NV 89820
775-778-4000 Fax: 778-4360
Company employees: 487
Contract employees: 107
Production:
Gold - 217,015 oz
Silver - 826,838 oz
Copper - 32,102,979 pounds

Slaven Canyon Mine (12)
Operator:
Baker Hughes Oilfield Operations, LLC
P.O. Box 277
Battle Mountain, NV 89820
775-625-8700 Fax: 635-5455
Company employees: 2
Mined:
Barite - 95,260 tons
Open pit and copper plates from Newmont’s Phoenix Mine, Lander County (Rich Perry photos).
Section IV

Elko County

Arturo Mine (1)
Operator:
Barrick Goldstrike Mines, Inc.
P.O. Box 29
Elko, NV 89803
775-748-1001
Company employees: 30
Production:
Gold - 52,451 oz

Hollister Mine (2)
Operator:
Klondex Hollister Mine, Inc.
(Acquired by Hecla Mining Co., July 2018)
4000 W. Winnemucca Blvd.
Winnemucca, NV 89445
775-621-5535 Fax: 328-7176
Company employees: 77
Contract employees: 28
Production:
Gold - 26,612 oz
Silver - 246,080 oz

Jerritt Canyon Mine (3)
Operator:
Jerritt Canyon Gold, LLC
HC31 Box 78
Elko, NV 89801
775-738-5600 Fax: 758-9233
Company employees: 250
Contract employees: 150
Production:
Gold - 145,064 oz

Elko and White Pine continued on page 15 after the centerfold
Looking southeast at the Smoky Valley Common Operations, Nye County (Garrett Wake photo).
Ma or mines, oil fields, and geothermal plants, 2018.
Round Mountain open-pit mine, Smoky Valley Common Operations, Nye County (Mike Richardson photo).
Long Canyon Mine (4)
Operator:
   Newmont USA, Ltd.
   1655 Mountain City Highway
   Elko, NV 89801
   775-778-4000
   Company employees: 271
Production:
   Gold - 170,205 oz

Meikle Mine (5)
Operator:
   Barrick Goldstrike Mines, Inc.
   P.O. Box 29
   Elko, NV 89803
   775-748-1001  Fax: 748-1240
   Company employees: 599
Production:
   Gold - 337,376 oz
   Silver - 15,918 oz

Midas Mine (6)
Operator:
   Klondex Midas Operations, Inc.
   (Acquired by Hecla Mining, Co., July 2018)
   4000 W. Winnemucca Blvd.
   Winnemucca, NV 89445
   775-621-5535  Fax: 328-7176
   Company employees: 107
   Contract employees: 33
Production:
   Gold - 13,852 oz
   Silver - 164,054 oz

Pilot Peak Quarry (7)
Operator:
   Graymont
   P.O. Box 2520
   West Wendover, NV 89883
   775-483-5463  Fax: 801-262-3942
   Company employees: 69
Production:
   Limestone - 1,306,610 tons

Rossi Mine (8)
Operator:
   Halliburton Energy Solutions
   912 Dunphy Ranch Rd.
   Battle Mountain, NV 89820
   720-593-7110
   Company employees: 6
No mine production in 2018

White Pine County
Bald Mountain Mine (9)
Operator:
   KG Mining (Bald Mountain), Inc.
   435 Jiggs Hwy., Unit 16
   Spring Creek, NV 89815
   775-237-7100  Fax: 237-7101
   Company employees: 550
   Contract employees: 140
Production:
   Gold - 284,359 oz
   Silver - 21,793 oz

Mt. Moriah Quarry (10)
Operator:
   Mt. Moriah Stone Quarries
   #10 Hatch Rock Rd.
   Baker, NV 89311
   435-855-2232  Fax: 855-2332
   Company employees: 45
Production:
   Quartzite - 5,415 tons

Pan Mine (11)
Operator:
   Fiore Gold (US), Inc.
   P.O. Box 150278
   Ely, NV 89315
   775-396-1901
   Company employees: 43
   Contract employees: 93
Production:
   Gold - 37,403 oz

Robinson Mine (12)
Operator:
   KGHM International, Ltd.
   P.O. Box 382
   Ruth, NV 89319
   775-289-7000  Fax: 289-7349
   Company employees: 620
   Contract employees: 135
Production:
   Copper - 112,552,787 pounds
   Gold - 38,990 oz
   Molybdenite - 459,959 pounds
   Silver - 171,679 oz
Section V

Churchill County

Churchill Limestone Quarry (1)
Operator:
Nevada Cement Co.
P.O. Box 840
Fernley, NV 89408
775-575-2281 Fax: 575-4387
Company employees: 6
Production:
Limestone - 483,518 tons
Fernley Diatomite Operations (2)
Operator:
EP Minerals, LLC
P.O. Box 860
Fernley, NV 89408
775-423-6668   Fax: 423-6411
Company employees: 35
Production:
Diatomite - 35,427 tons

Hazen Mine (3)
Operator:
EP Minerals, LLC
640 Clark Station Rd.
Sparks, NV 89434
775-824-7700   Fax: 824-7715
Company employees: 2
Contract employees: 4
Production:
Diatomite - 24,579 tons

Huck Salt (4)
Operator:
Huck Salt Company
2900 Phritzie Ln.
Fallon, NV 89406
775-423-2055   Fax: 423-0467
Company employees: 11
Shipped:
Salt - 19,900 tons

Nightingale Mine (5)
Operator:
Imerys Filtration Minerals, Inc.
100 Front Street
Fernley, NV 89408
775-575-2536
Company employees: 15
Contract employees: 5
Production:
Diatomite - 26,570 tons

Perlite Mine (6)
Operator:
EP Minerals, LLC
640 Clark Station
Sparks, NV 89434
775-824-7700   Fax: 824-7715
Company employees: 2
Production:
Perlite - 15,540 tons

Mineral County
Aurora Mine (7)
Operator:
Klondex Aurora Mine, Inc.
(Acquired by Hecla Mining Co., July 2018)
4000 W. Winnemucca Blvd.
Winnemucca, NV 89445
775-621-5535  Fax: 328-7176
Company employees: 12
Contract employees: 2
Production:
Gold - 3,700 oz
Silver - 37,174 oz

Borealis Mine (8)
Operator:
Borealis Mining Company, LLC
P.O. Box 549
Hawthorne, NV 89415
775-826-7567
Company employees: 6
Production:
Gold - 420 oz
Silver - 394 oz

Denton-Rawhide Mine (9)
Operator:
Rawhide Mining, LLC
P.O. Box 2070
Fallon, NV 89407
775-945-1015   Fax: 945-1213
Company employees: 55
Contract employees: 1
Production:
Gold - 15,444 oz
Silver - 208,875 oz
Section VI
Esmeralda County

Basalt Diatomite Mine (1)
Operator:
Grefco Minerals, Inc.
P.O. Box 278
Dyer, NV 89010
775-573-2422
Company employees: 15
Production:
Diatomite - 2,268 tons

Blanco Mine (2)
Operator:
Vanderbilt Minerals, Inc.
P.O. Box 6660
Pahrump, NV 89041
775-537-6976 Fax: 537-6879
Company employees: 4
Production:
Specialty Clays - No mining occurred in 2018
Heart of Nature (3)
Operator:
    Heart of Nature, LLC
    3055 Saint Rose Parkway #778203
    Henderson, NV 89052
    702-462-6690
    Company employees: 1
    Contract employees: 4
Production:
    Gypsum/sulfur soil amendment - 9,992 tons

Mineral Ridge Mine (4)
Operator:
    Mineral Ridge Gold, LLC
    1910 Idaho St., Ste. 102-550
    Elko, NV 89801
    775-753-4778   Fax: 775-753-4780
    Company employees: 18
Production:
    Gold - 7,497 oz
    Silver - 3,444 oz

Silver Peak Lithium Operations (5)
Operator:
    Rockwood Lithium, Inc.
    P.O. Box 98
    Silver Peak, NV 89047
    775-937-2222   Fax: 937-2317
    Company employees: 70
    Contract employees: 30
Shipped:
    Lithium compounds - 12,908,794 lbs

Nye County

Amargosa Clay Operation (6)
Operator:
    Lhoist North America
    P.O. Box 86
    Amargosa Valley, NV 89020
    775-372-5341   Fax: 372-5320
    Company employees: 33
    Contract employees: 3
Production:
    Specialty clays - 144,830 tons

New Discovery Mine (7)
Operator:
    Vanderbilt Minerals, LLC
    P.O. Box 6660
    Pahrump, NV 89041
    775-537-6976   Fax: 537-6879
    Company employees: 4
Production:
    Specialty clays - No mining occurred in 2018

Premier Magnesia (8)
Operator:
    Premier Magnesia, LLC
    P.O. Box 177
    Gabbs, NV 89409
    775-285-2601   Fax: 285-4021
    Company employees: 110
    Contract employees: 15
Shipped:
    Magnesium compounds - 125,945 tons

Smoky Valley Common Operation (9)
Operator:
    Round Mountain Gold Corp.
    P.O. Box 480
    Round Mountain, NV 89045
    775-377-2366   Fax: 377-3224
    Company employees: 839
    Contract employees: 291
Production:
    Gold - 375,741 oz
    Silver - 798,249 oz

Sterling Mine (10)
Operator:
    Coeur Sterling
    P.O. Box 549
    Beatty, NV 89003
    702-846-2606
    Company employees: 12
    Contract employees: 6
Production:
    Gold - 280 oz
Section VII

Clark County

Apex Quarry (1)
Operator:
Lhoist North America
12101 N. Las Vegas Blvd.
North Las Vegas, NV 89165
702-227-4916
Company employees: 102
Contract employees: 4
Production:
Limestone - 1,314,000 tons
Dolomite - 270,000 tons

Blue Diamond Hill Mine (2)
Operator:
Gypsum Resource Materials, LLC
P.O. Box 147
Blue Diamond, NV 89004
702-482-3538
Company employees: 48
Contract employees: 3
Production:
Gypsum - 1,777,865 tons

Lima Nevada Gypsum Mine (3)
Operator:
H. Lima Nevada, LLC
704 E. Yosemite
Manteca, CA 95336
209-239-6787 Fax: 239-6778
Company employees: 10
Production:
Gypsum - 57,000 tons

PABCO Gypsum Mine (4)
Operator:
Pacific Coast Building Products, Inc.
P.O. Box 364329
North Las Vegas, NV 89036
702-407-3700 Fax: 643-6249
Company employees: 18
Contract employees: 1
Production:
Gypsum - 1,394,825 tons

Rainbow Quarry (5)
Operator:
Las Vegas Rock, Inc.
P.O. Box 19118
2 Jean Prison Rd.
Jean, NV 89019
702-791-7625 Fax: 896-4533
Company employees: 11
Production:
Meta-quartzite blocks - 4,200 tons

Simplot Silica Products (6)
Operator:
J.R. Simplot Company
P.O. Box 308
Overton, NV 89040
702-397-2667 Fax: 397-2798
Company employees: 38
Shipped:
Silica sand - 1,000,000 tons

Lincoln County

Tenacity Perlite Mine (7)
Operator:
Wilkin Mining & Trucking, Inc.
HC 34 Box 199
Caliente, NV 89008
775-728-4463
Company employees: 9
Production:
Perlite - 1,637 tons
## Summary of 2018 production

<table>
<thead>
<tr>
<th>Material</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold</td>
<td>5,581,160 ounces</td>
</tr>
<tr>
<td>Silver</td>
<td>8,011,408 ounces</td>
</tr>
<tr>
<td>Barite (shipped)</td>
<td>464,334 tons</td>
</tr>
<tr>
<td>Copper</td>
<td>144,655,766 pounds</td>
</tr>
<tr>
<td>Diatomite</td>
<td>399,358 tons</td>
</tr>
<tr>
<td>Dolomite</td>
<td>312,832 tons</td>
</tr>
<tr>
<td>Gypsum</td>
<td>3,339,891 tons</td>
</tr>
<tr>
<td>Limestone</td>
<td>3,283,080 tons</td>
</tr>
<tr>
<td>Lithium compounds (shipped)</td>
<td>12,908,794 pounds</td>
</tr>
<tr>
<td>Magnesium compounds (shipped)</td>
<td>125,945 tons</td>
</tr>
<tr>
<td>Molybdenite</td>
<td>459,959 pounds</td>
</tr>
<tr>
<td>Perlite</td>
<td>17,087 tons</td>
</tr>
<tr>
<td>Salt (shipped)</td>
<td>19,900 tons</td>
</tr>
<tr>
<td>Silica sand (shipped)</td>
<td>716,374 tons</td>
</tr>
<tr>
<td>Specialty clays</td>
<td>178,956 tons</td>
</tr>
</tbody>
</table>

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### Nevada Mineral and Energy Production Values 1978 - 2018

![Graph showing Nevada Mineral and Energy Production Values 1978 - 2018](image_url)
Economic Impacts of Mining in Nevada—2018

Nevada’s mining industry recorded approximately $8.42 billion in total value of all commodities in 2018, representing a slight 0.3% increase from the $8.39 billion value in 2017. Nearly 86% of the value was driven by gold and silver, which contributed over $7.2 billion, based on the actual gross proceeds reported to the Nevada Department of Taxation. According to Kitco Metals Inc. (www.kitco.com), the average prices for gold and silver in 2018 were $1,268.49 and $15.71 per troy ounce, respectively. Nevada led the nation in 2018 in the production of gold, barite, lithium compounds and magnesium compounds. Nevada produced a wide variety of other mineral and energy commodities such as clays, copper, diatomite, dolomite, geothermal energy, gypsum, lapidary and gem stones, limestone, molybdenite, oil, perlite, salt, silica sand, silver, and specialty aggregates. A summary of commodity production amounts, value, and year over year percentage changes can be seen in table 1.

Table 1. Summary of 2018 Nevada Mineral Commodity Production

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Production Amount</th>
<th>Unit</th>
<th>YOY Change (%)</th>
<th>Value ($)</th>
<th>YOY Value Change (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold</td>
<td>5,581,160</td>
<td>ounces</td>
<td>-1.1%</td>
<td>$7,079,645,648</td>
<td>-0.2%</td>
</tr>
<tr>
<td>Silver</td>
<td>8,011,408</td>
<td>ounces</td>
<td>-5.5%</td>
<td>$125,859,220</td>
<td>-12.9%</td>
</tr>
<tr>
<td>Barite (shipped)</td>
<td>464,334</td>
<td>tons</td>
<td>18.6%</td>
<td>$46,795,371</td>
<td>48.6%</td>
</tr>
<tr>
<td>Copper</td>
<td>144,655,766</td>
<td>pounds</td>
<td>-0.8%</td>
<td>$428,181,067</td>
<td>3.0%</td>
</tr>
<tr>
<td>Diatomite</td>
<td>399,358</td>
<td>tons</td>
<td>44.2%</td>
<td>$46,734,876</td>
<td>3.5%</td>
</tr>
<tr>
<td>Dolomite</td>
<td>312,832</td>
<td>tons</td>
<td>-0.9%</td>
<td>$4,095,225</td>
<td>-2.4%</td>
</tr>
<tr>
<td>Gypsum</td>
<td>3,339,891</td>
<td>tons</td>
<td>-4.1%</td>
<td>$42,344,242</td>
<td>-0.9%</td>
</tr>
<tr>
<td>Limestone</td>
<td>3,283,080</td>
<td>tons</td>
<td>2.1%</td>
<td>$39,219,511</td>
<td>13.8%</td>
</tr>
<tr>
<td>Lithium compounds (shipped)</td>
<td>12,908,794</td>
<td>pounds</td>
<td>26.1%</td>
<td>$64,595,876</td>
<td>63.0%</td>
</tr>
<tr>
<td>Magnesium compounds (shipped)</td>
<td>125,945</td>
<td>tons</td>
<td>12.3%</td>
<td>$8,139,844</td>
<td>3.0%</td>
</tr>
<tr>
<td>Molybdenite</td>
<td>459,959</td>
<td>pounds</td>
<td>-29.5%</td>
<td>$5,643,697</td>
<td>5.9%</td>
</tr>
<tr>
<td>Perlite</td>
<td>17,087</td>
<td>tons</td>
<td>-23.4%</td>
<td>$656,137</td>
<td>-21.1%</td>
</tr>
<tr>
<td>Salt (shipped)</td>
<td>19,900</td>
<td>tons</td>
<td>-19.9%</td>
<td>$677,678</td>
<td>23.7%</td>
</tr>
<tr>
<td>Silica sand (shipped)</td>
<td>716,374</td>
<td>tons</td>
<td>-1.5%</td>
<td>$19,626,602</td>
<td>-1.1%</td>
</tr>
<tr>
<td>Specialty clays</td>
<td>178,956</td>
<td>tons</td>
<td>37.7%</td>
<td>$11,670,736</td>
<td>3.8%</td>
</tr>
<tr>
<td>Geothermal energy (sold)</td>
<td>3,466,978</td>
<td>megawatt hours</td>
<td>4.3%</td>
<td>$265,793,425</td>
<td>9.7%</td>
</tr>
<tr>
<td>Oil (sold)</td>
<td>251,022</td>
<td>barrels</td>
<td>-10.7%</td>
<td>$13,632,793</td>
<td>5.8%</td>
</tr>
<tr>
<td>Aggregates</td>
<td>31,587,000</td>
<td>tons</td>
<td>-12.9%</td>
<td>$215,000,000</td>
<td>-10.4%</td>
</tr>
<tr>
<td>Total Value</td>
<td></td>
<td></td>
<td></td>
<td>$8,418,311,948</td>
<td></td>
</tr>
</tbody>
</table>

Production Highlights

Nevada’s gold production was 5,581,160 troy ounces in 2018 compared to 5,641,623 troy ounces in 2017, a decrease of 1.1%. According to the USGS, Nevada remains the nation’s top gold producer with about 83% (174 metric tons) of the U.S. total (210 metric tons) and would rank 5th in world gold production behind China (400), Australia (310), Russia (295), and Canada (185). A summary of 2018 metal production, ranked by producer, is shown in table 2.

Employment

According to the Nevada Department of Employment, Training, and Rehabilitation, the Nevada minerals industry, including support activities and oil and gas extraction, directly employed an average of 14,787 people in 2018. The average yearly pay for mineral industry employees during this time was $97,600, the third highest average private employment sector in the state, behind Company Management and Utilities. Mining employment has remained an important factor in Nevada.
Permitting and Reclamation

Before mining can begin, plans of operation must be submitted and permits obtained from federal and state agencies to ensure that resources such as wildlife, air, and water are protected. Nevada and federal laws and regulations require that lands disturbed by mining activities be rehabilitated so they can be used for other activities once mining is completed. This process, called reclamation, returns mined areas to other productive practices such as livestock grazing, wildlife habitat, recreation opportunities, or other natural resource uses. To ensure that reclamation is completed, mine operators are required to post reclamation bonds that are held by government agencies. The bonds are released only after the mined area is stabilized and the reclamation goals have been met. According to the Nevada Division of Environmental Protection, approximately $3.0 billion in reclamation bonds and other financial assurance are currently posted. Mine operators are proud of their efforts and are constantly seeking ways to enhance their reclamation technology.

Gold Reserves

Gold reserves are defined as that portion of a gold deposit known to be economically feasible for extraction. The amount of reserves is always in a state of flux, due to some reserves being mined out, additions of new reserves through exploration, and changing commodity prices and operating costs. The price of gold and the cost of production are the main factors determining reserve. Extensive gold resources are known to exist at or near many mining operations in Nevada. An increase in the gold price with all else being equal would mean many companies would be able to reclassify their resources into a reserve category. An increase in the cost of regulatory compliance or the application of gross royalties levied on production can have the same effect as a lowering of the gold price, thereby reducing reserves. For the larger operating mines, the publicly reported reserves for the year ending 2018 totaled approximately 58 million ounces of gold. Assuming similar economic conditions without any reserve replacement, current reserves are sufficient to sustain gold production.

Table 2. 2018 Nevada Metal Production, by Producer

<table>
<thead>
<tr>
<th>Operator</th>
<th>Gold (ozs)</th>
<th>Silver (ozs)</th>
<th>Copper (lbs)</th>
<th>Moly (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barrick</td>
<td>2,425,512</td>
<td>105,360</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newmont</td>
<td>1,808,484</td>
<td>1,107,493</td>
<td>32,102,979</td>
<td></td>
</tr>
<tr>
<td>Kinross</td>
<td>660,100</td>
<td>820,042</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSR Mining</td>
<td>205,161</td>
<td>4,315</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jerritt Canyon Gold</td>
<td>145,064</td>
<td>NR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hecla (Klondex)</td>
<td>109,614</td>
<td>516,312</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coeur</td>
<td>54,668</td>
<td>5,037,983</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Florida Canyon Mining (Alio Gold)</td>
<td>46,878</td>
<td>31,775</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KGHM International</td>
<td>38,990</td>
<td>171,679</td>
<td>112,552,787</td>
<td>459,959</td>
</tr>
<tr>
<td>Fiore Gold</td>
<td>37,403</td>
<td>NR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Premier Gold (40% of S. Arturo)</td>
<td>20,980</td>
<td>NR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rawhide Mining</td>
<td>15,444</td>
<td>208,875</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mineral Ridge Gold</td>
<td>7,497</td>
<td>3,444</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ruby Hill Mining</td>
<td>4,648</td>
<td>3,584</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Borealis Mining</td>
<td>420</td>
<td>394</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunrise Minerals</td>
<td>268</td>
<td>150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geo-Nevada</td>
<td>14</td>
<td>NR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Gold Nevada</td>
<td>14</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>5,581,160</strong></td>
<td><strong>8,011,408</strong></td>
<td><strong>144,655,766</strong></td>
<td><strong>459,959</strong></td>
</tr>
</tbody>
</table>
near current levels in Nevada for about ten years, (table 3).

**Exploration**

Exploration for new deposits is an ongoing effort by both the operating companies and many others who do not operate mines in the state. Exploration geologists, drillers, assayers, and others who support exploration activities represent a significant positive economic impact, particularly in Nevada’s rural areas. Exploration activity and funding are closely tied to economic conditions and commodity prices. In order to quantify the level of exploration activity and the factors responsible for those levels, the Division contracted with the Nevada Bureau of Mines and Geology, who released the results of the biennial exploration survey in early 2019, using 2017 and 2018 data. This informative report, which can be downloaded at [http://pubs.nbmg.unr.edu/NV-exploration-survey-2018-p/es2018.htm](http://pubs.nbmg.unr.edu/NV-exploration-survey-2018-p/es2018.htm), revealed that gold exploration accounted for 77 percent ($353 million) of $461 million total exploration spending, up significantly from $351 million total spent in 2017. Two large companies accounted for nearly 40 percent of the total spending. Approximately 784 people were directly employed by companies doing exploration activities in Nevada in 2018, up from 644 in 2017. Exploration for base metals accounted for 15 percent ($70 million) and exploration for lithium and other energy metals continues to be significant at 5 percent ($24 million).

**Oil and Geothermal Activity**

Economic activity from oil and gas exploration and production is relatively minor when compared to mining, but are locally important to the economy of east-central Nevada. In oil field terms, Nevada is considered a frontier state, meaning its potential is yet to be realized. Exploration activity and production were both negatively impacted by the price of crude in 2018. According to the U.S. Energy Information Administration, the price for a barrel of West Texas Intermediate crude in 2018 ranged from a monthly average low of $49.52 to a high of $70.98 and averaged $65.19 for the

### Table 3. Nevada Mine Reserves (Proven and Probable) Reported for End of Year 2018

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine</th>
<th>Gold (ozs)</th>
<th>Silver (ozs)</th>
<th>Copper (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newmont</td>
<td>Carlin Operations</td>
<td>12,460,000</td>
<td></td>
<td>890,000,000</td>
</tr>
<tr>
<td>Newmont</td>
<td>Phoenix</td>
<td>2,820,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newmont</td>
<td>Twin Creeks</td>
<td>5,510,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newmont</td>
<td>Turquoise Ridge (25%)</td>
<td>1,980,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newmont</td>
<td>Long Canyon</td>
<td>1,070,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barrick</td>
<td>Goldstrike (OP and UG)</td>
<td>8,525,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barrick</td>
<td>Cortez</td>
<td>8,737,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barrick</td>
<td>Goldrush</td>
<td>1,993,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barrick</td>
<td>Turquoise Ridge (75%)</td>
<td>6,833,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barrick</td>
<td>South Arturo (60%)</td>
<td>412,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coeur</td>
<td>Rochester</td>
<td>684,000</td>
<td>106,200,000</td>
<td></td>
</tr>
<tr>
<td>Kinross</td>
<td>Round Mountain</td>
<td>2,668,000</td>
<td>1,669,000</td>
<td></td>
</tr>
<tr>
<td>Kinross</td>
<td>Bald Mountain</td>
<td>1,347,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSR</td>
<td>Marigold</td>
<td>3,060,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Klondex</td>
<td>Fire Creek</td>
<td>69,000</td>
<td>57,000</td>
<td></td>
</tr>
<tr>
<td>Klondex</td>
<td>Hollister</td>
<td>8,000</td>
<td>82,000</td>
<td></td>
</tr>
<tr>
<td>KGHM</td>
<td>Robinson</td>
<td></td>
<td></td>
<td>565,400,000</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td>58,176,000</td>
<td>108,008,000</td>
<td>1,455,400,000</td>
</tr>
</tbody>
</table>
year, versus $50.80 in 2017. Nevada’s oil production in 2018 decreased from 280,970 barrels (42 gallons per barrel) in 2017 to 251,021 barrels sold, worth approximately $13.6 million. Table 4 summarizes the number of barrels sold and wells by operator and field in 2018.

Nevada is rich in geothermal resources and is second only to California in the production of geothermal energy. For 2018, Nevada had 26 plants at 17 fields that sold approximately 3.6 million megawatt hours of electricity worth approximately $266 million, (table 5). According to the U.S. Energy Information Association, this is enough to power about 286,000 Nevada residential homes for a year. Geothermal heat is also used for a variety of commercial, domestic and public applications in Nevada. Schools in Elko County, a casino in Washoe County, and homes in Lincoln and Washoe counties are examples of public and private facilities using this renewable energy resource.

Conclusion

Nevada’s mineral industry continued to be a major economic force in the state with a total produced value of over $8 billion in 2018. Given a stable price and regulatory environment this situation should continue for many years to come. Nevada is a major natural resource producer and has significant mineral and energy resources. Major risks to the stability of the minerals industry are withdrawal of federal lands from mineral entry and leasing, and any gross royalties imposed on locatable mineral production.

Table 4. Nevada Oil Production in 2018

<table>
<thead>
<tr>
<th>Operator</th>
<th>Producing Field</th>
<th># of Producing Wells</th>
<th>Total Barrels Sold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Makoil</td>
<td>Trap Spring</td>
<td>25</td>
<td>121,949</td>
</tr>
<tr>
<td>Grant Canyon</td>
<td>Blackburn</td>
<td>6</td>
<td>24,536</td>
</tr>
<tr>
<td>Grant Canyon</td>
<td>Grant Canyon</td>
<td>3</td>
<td>32,209</td>
</tr>
<tr>
<td>Kirkwood</td>
<td>Eagle Springs</td>
<td>11</td>
<td>27,208</td>
</tr>
<tr>
<td>Western General</td>
<td>Kate Spring</td>
<td>3</td>
<td>17,257</td>
</tr>
<tr>
<td>Kirkwood</td>
<td>Ghost Ranch</td>
<td>3</td>
<td>7,935</td>
</tr>
<tr>
<td>Makoil</td>
<td>Kate Spring</td>
<td>1</td>
<td>5,320</td>
</tr>
<tr>
<td>Grant Canyon</td>
<td>Bacon Flat</td>
<td>1</td>
<td>5,037</td>
</tr>
<tr>
<td>Makoil</td>
<td>Ghost Ranch</td>
<td>1</td>
<td>4,815</td>
</tr>
<tr>
<td>Western General</td>
<td>Taylor Fed (Kate Spring)</td>
<td>2</td>
<td>2,887</td>
</tr>
<tr>
<td>Grant Canyon</td>
<td>Sans Spring</td>
<td>1</td>
<td>1,440</td>
</tr>
<tr>
<td>Tomera Oil Fields</td>
<td>Tomera Ranch</td>
<td>2</td>
<td>385</td>
</tr>
<tr>
<td>Noble Energy</td>
<td>Huntington</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Kirkwood</td>
<td>Sand Dune</td>
<td>1</td>
<td>43</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td><strong>61</strong></td>
<td><strong>251,021</strong></td>
</tr>
</tbody>
</table>

Table 5. Nevada Geothermal Production in 2018 by Company

<table>
<thead>
<tr>
<th>Company</th>
<th>Total Output (Sales) MWh</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ormat Nevada Inc.</td>
<td>2,275,528.3</td>
<td>63.4%</td>
</tr>
<tr>
<td>Terra-Gen Dixie Valley LLC</td>
<td>595,252.9</td>
<td>16.6%</td>
</tr>
<tr>
<td>Cyrq Energy</td>
<td>482,012.0</td>
<td>13.4%</td>
</tr>
<tr>
<td>Enel North America Inc.</td>
<td>222,436.2</td>
<td>6.2%</td>
</tr>
<tr>
<td>Homestretch Energy/Whitegrass No. 1 LLC</td>
<td>11,990.1</td>
<td>0.3%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3,587,219.5</strong></td>
<td></td>
</tr>
</tbody>
</table>
Pumpjack on the Santa Maria de Los Angeles oil well near the Munson Ranch field of Railroad Valley, Nye County (Courtney Brailo photo).

Geothermal production well, pipeline, and plant at Blue Mountain, Humboldt County (Lowell Price photo).
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Colado Mine 8
Cortez Hills Mine 12
Denton-Rawhide Mine 17
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Fernley Diatomite Operations 17
Fire Creek Mine 12
Florida Canyon Mine 8
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</tbody>
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</tr>
</tbody>
</table>

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